

Notice of Allowability

Application No.

10/601,929

Examiner

MARY STEELMAN

Applicant(s)

SENGODAN, KATHIRAVAN

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 04/03/2007.
2. ☒ The allowed claim(s) is/are 1-6, 8-13, 21 (to be renumbered in order).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 04/03/2007
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 6.7.07
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

1. This Office Action is in response to Remarks and Claim Amendments received 04/03/2007. Per Applicant's request, claims 1-3 and 8-10 are amended. Claims 7 and 14 are canceled. New claims 15-21 have been added. Per Applicant's request, the Specification has been amended. Claims 1-6, 8-13, and 15-21 are pending. In view of the amendments, prior 112, second paragraph rejections are hereby withdrawn. IDS received 04/03/2007 has been considered.

2. Terminal Disclaimers over copending applications 10/601898, 10/602038, 10/602037 have been accepted.

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Karl Kenna, Reg. No. 45,445 on 06/07/2007. The application has been amended as follows:

Claims 7 & 14-20 are canceled. Claims 1, 3, 5, 8, 10, 12, and 21 are amended.

Claims are as follows:

IN THE CLAIMS

1. (Currently Amended) A system including a command-line interface for use with a mark-up language, to abstract complexity of enterprise service application program interface (API) programming, comprising:

a server computer including a server processor and a plurality of enterprise service API for one of messaging, operation, administration, and management monitoring;

a client computer including a processing device and a client operating thereon;

an application including a command-line user interface that executes on the client and allows a user to enter that receives user input markup language commands, including the name of at least one enterprise service API at the server computer, and operations to be performed therewith;

a client command processor that executes on the client and that validates the user input markup language commands, and, for each markup language command converts the markup language command into a command object for communication to a command dispatcher;

a client command dispatcher that executes on the client and that receives command objects from the command processor and, for each command object, assigns the command object to one of a plurality of categories corresponding to ~~[[a]] the plurality of application program interfaces~~ enterprise service API specified in the user input markup language commands; and

a plurality of client processor modules, including a processor module ~~for specific to each~~

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category of ~~application program interface~~ enterprise service API, wherein each processor module ~~executes on the computer~~, receives the command objects assigned to its category, and ~~performs appropriate actions against the corresponding application program interface~~ uses the command object to perform operations at the corresponding enterprise service API located on the server computer.

2. (Previously Presented) The system of claim 1 wherein the markup language commands are communicated as a source file, and wherein the client includes a parser that parses said source file to retrieve said markup language commands and communicate said markup language commands to said server.

3. (Currently Amended) The system of claim 1 wherein said command-line user interface communicates said markup language commands to ~~said remote~~ the server computer via a wide area network or the Internet.

4. (Original) The system of claim 1 wherein said parser and said command processor comprise an engine that parses source files and generates commands.

5. (Currently Amended) The system of claim 9 wherein the markup language is ~~JMS markup language~~ JMSML.

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6. (Original) The system of claim 1 wherein the source file is an XML file.

8. (Currently Amended) A method of using a command-line interface with a mark-up language to abstract complexity of enterprise service application program interface (API) programming, comprising the steps of:

[providing an application including a command-line user interface that executes on a client and allows a user to enter markup language commands;

receiving said markup language commands at a command processor that executes on the client and that validates the markup language commands, and, for each markup language command converts the markup language command into a command object;

assigning each command object to one of a plurality of categories corresponding to a plurality of application program interfaces; and

processing the command objects using a plurality of processor modules, including a processor module for each category of application program interface, wherein each processor module receives the command objects assigned to its category, and performs appropriate operations against the corresponding application program interface at a remote server]

providing a server computer including a server processor and a plurality of enterprise service API for one of messaging, operation, administration and management monitoring;

providing a client computer including a processing device and a client operating thereon;

providing an application including a command-line user interface that executes on the client and that receives user input markup language commands including the name of at least one

enterprise service API at the server computer, and operations to be performed therewith;

receiving said markup language commands at a client command processor, that validates the user input markup language commands and for each markup language command converts the markup language command into a command object for communication to a client command dispatcher,

assigning each command object to one of a plurality of categories corresponding to the enterprise service API specified in the user input markup language commands; and

communicating the command objects to a plurality of client processor modules, including a processor module specific to each category of enterprise service API, wherein each processor module receives the command objects assigned to its category, and uses the command object to perform operations at the corresponding enterprise service API located on the server computer.

9. (Previously Presented) The method of claim 8 wherein the markup language commands are communicated as a source file, and wherein the client includes a parser that parses said source file to retrieve said markup language commands and communicate said markup language commands to said command processor.

10. (Currently Amended) The method of claim 8 wherein said command-line user interface communicates said markup language commands to ~~said remote~~ the server computer via a wide area network or the Internet.

11. (Original) The method of claim 8 wherein said parser and said command processor

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comprise an engine that parses source files and generates commands.

12. (Currently Amended) The method of claim 8 wherein the markup language is ~~JMS~~ markup language JMSML.

13. (Original) The method of claim 8 wherein the source file is an XML file.

21. (Currently Amended) A computer ~~readable medium~~ program product including a storage medium having instructions stored thereon, which when executed cause the computer to perform the steps of:

[providing an application including a command line user interface that executes on a client and allows a user to enter markup language commands;

receiving said markup language commands at a command processor that executes on the client and that validates the markup language commands, and, for each markup language command converts the markup language command into a command object;

assigning each command object to one of a plurality of categories corresponding to a plurality of application program interfaces; and

processing the command objects using a plurality of processor modules, including a processor module for each category of application program interface, wherein each processor module receives the command objects assigned to its category, and performs appropriate operations against the corresponding application program interface at a remote server]

providing a server computer including a server processor and a plurality of enterprise service application program interface (API) for one of messaging, operation, administration and management monitoring;

providing a client computer including a processing device and a client operating thereon;

providing an application including a command-line user interface that executes on the client and that receives user input markup language commands including the name of at least one enterprise service API at the server computer, and operations to be performed therewith;

receiving said markup language commands at a client command processor, that validates the user input markup language commands, and, for each markup language command converts the markup language command into a command object for communication to a client command dispatcher;

assigning each command object to one of a plurality of categories corresponding to the enterprise service API specified in the user input markup language commands; and

communicating the command objects to a plurality of client processor modules including a processor module specific to each category of enterprise service API, wherein each processor module receives the command objects assigned to its category, and uses the command object to perform operations at the corresponding enterprise service API located on the server computer.

THE END

Allowable Subject Matter

4. Claims 1-6, 8-13, and 21 (to be renumbered in order) are allowed.

The following is an examiner's statement of reasons for allowance:

As noted in Applicants Reply received 04/03/2007 (page 14, 2nd paragraph), Fuchs (US Patent Publication 2003/0177477), Najmi (USPN 6,753,889), and other cited prior arts, taken alone or in combination, fail to teach or suggest all limitations of independent claims 1, 8, and 21, including:

“a client command processor that executes on the client and that validates the user input markup language commands, and, for each markup language command converts the markup language command into a command object for communication to a command dispatcher;

a client command dispatcher that executes on the client and that receives command objects from the command processor and, for each command object, assigns the command object to one of a plurality of categories corresponding to the enterprise service API specified in the user input markup language commands; and

a plurality of client processor modules, including a processor module specific to each category of enterprise service API, wherein each processor module receives the command objects assigned to its category, and uses the command object to perform operations at the corresponding enterprise service API located on the server computer.”

Moreover, evidence for modifying the prior art teachings by one of ordinary skill level in the art was not uncovered so as to result in the invention. Thus all remaining dependent claims, claims 2-6, and 9-13 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mary Steelman, whose telephone number is (571) 272-3704. The examiner can normally be reached Monday through Thursday, from 7:00 AM to 5:30 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wei Zhen can be reached at (571) 272-3708. The fax phone number for the organization where this application or proceeding is assigned: 571-273-8300.

Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 Group receptionist: 571-272-2100.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mary Steelman

06/07/2007

Mary Steelman
Patenting Examiner